

Dec. 1888.

Greenwich Observations of Comets.

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Observations of Comets *a* 1888 (*Sawerthal*), and *e* 1888 (*Barnard*), made at the Royal Observatory, Greenwich.

(Communicated by the Astronomer Royal.)

The observations were made with the East or Sheepshanks equatorial, aperture 6·7 inches, by taking transits over two cross wires at right angles to each other, and each inclined 45° to the parallel of declination.

Comet *a* 1888 (*Sawerthal*).

Greenwich Mean Solar Time. 1888. d h m s	Observer.	♂-★ R.A. m s	Corr. for Refraction		♂-★ N.P.D. ' "	Corr. for Refraction		No. of Comp.	Apparent R.A.			Apparent N.P.D.			Comp. Star
			Par.	s		Par.	"		h	m	s	o	'	"	
June 8 10 59 11	T.	-0 17'12	-0'20	0'00	- 3 6'3	-3'8	-0'5	8	...	...	...	...	...	...	<i>a</i>
11 5 42	...	+1 33'75	-0'20	0'00	+ 4 34'9	-3'7	+0'8	2	...	...	...	...	...	...	<i>b</i>
11 7 43	...	+1 31'50	-0'20	0'00	+ 2 52'2	-3'7	+0'5	1	0 37	34'50		47 49	44'1		<i>c</i>
9 11 13 12	H.	-4 15'68	-0'20	0'00	- 4 38'2	-3'6	-0'6	4	0 38	57'03		47 32	29'3		<i>d</i>
11 11 36 41	T.	-0 31'50	-0'20	0'00	+ 2 11'5	-3'4	+0'2	2	...	...	...	...	...	...	<i>e</i>
28 11 15 53	A. D.	+0 11'17	-0'20	0'00	-12 1'3	-2'9	-0'6	3	0 59	24'77		42 37	16'9		<i>f</i>
11 27 19	...	-1 22'56	-0'22	0'00	+ 4 40'7	-2'8	+0'2	5	0 59	31'62		42 37	29'4		<i>g</i>
July 10 12 12 16	H.	+0 16'55	-0'30	0'00	- 2 0'2	-2'5	-0'1	2	1 6	10'45		40 2	32'2		<i>h</i>
12 24 51	...	-0 20'80	-0'30	0'00	+ 1 14'8	-2'5	0'0	1	...	...	...	...	...	...	<i>i</i>

Mean Places of Comparison Stars.

	Star's Name.	R.A., 1880°.		N.P.D., 1880°.		Authority.
		h	m	°	'	
<i>a</i>	Arg. Zone + 41°, No. 120	0	37	52	47	Bonn Observations, vol. v.
<i>b</i>	Arg. Zone + 42°, No. 151	0	36	2	47	"
<i>c</i>	Arg. Zone + 42°, No. 152	0	36	3'04	47	"
<i>d</i>	Arg. Zone + 42°, No. 181	0	43	12'74	47	vol. vi.
<i>e</i>	Arg. Zone + 42°, No. 174	0	42	10	47	"
<i>f</i>	Oeltz. Arg. (N.) 1075	0	59	12'96	46	"
<i>g</i>	Oeltz. Arg. (N.) 1111	1	0	53'65	42	Oeltz. Arg. (N)
<i>h</i>	Arg. Zone + 49°, No. 322	1	5	52'91	42	"
<i>i</i>	Arg. Zone + 49°, No. 324	1	6	35	40	Bonn Observations, vol. vi.
					40	"

Notes.

June 8.—Comet very faint.
June 28.—Comet with stellar nucleus (about as bright as a 10th magnitude star) and straight tail, which is traceable for about 6'.
July 10.—Comet was only a very faint patch of light. No perceptible nucleus.

The observations are corrected for parallax and refraction.
The initials A.D., T., and H., are those of Mr. Downing, Mr. Thackeray, and Mr. Hollis, respectively.

Comet e 1888 (*Barnard*).

Greenwich Mean Solar Time.		Observer.	* R.A.		Corr. for Par. Refraction		* N.P.D.	Par.	Corr. for Refraction		No. of Comp.	Apparent R.A.			Apparent N.P.D.			Comp. Star.
d	h m s		m	s	s	s	'	"	"	"		h	m	s	o	'	"	
1888. Nov. 26	8 6 41	L.	-0	18.68	-0.20	0.00	+0	51.1	-66	+0.1	6	...	...	...	...	...	...	<i>a</i>
	8 27 11	...	-0	31.72	-0.20	0.00	+5	51.7	-66	+0.4	6	...	...	...	...	...	...	<i>b</i>
	27 8 44 8	H. T.	-0	16.27	-0.10	0.00	+5	39.7	-66	+0.4	3	2 42	32.23	...	95 26	0.7	...	<i>c</i>
	8 47 6	...	+2	3.53	-0.10	0.00	+0	37.5	-66	0.0	4	2 42	30.33	...	95 26	6.5	...	<i>d</i>
Dec. 11	9 42 25	H.	-0	31.40	+0.10	0.00	-4	14.7	-58	-0.3	2	1 22	16.30	...	97 28	59.3	...	<i>e</i>
	9 58 57	...	-1	17.93	+0.10	0.00	+3	36.1	-58	+0.3	3	1 22	13.67	...	97 28	50.7	...	<i>f</i>
	12 6 41 5	T.	-0	24.58	-0.10	0.00	+2	15.1	-57	+0.1	6	1 18	20.42	...	97 31	58.3	...	<i>g</i>
	6 41 5	...	-0	52.5	-0.10	0.00	-1	51.6	-57	-0.1	6	1 18	20.70	...	97 31	58.6	...	<i>h</i>